

Site Chronology

1943-1948: Approx. 12,488 acres leased by Department of Defense

1997 2004 2005 **Archives ASR** Site Inspection Search **Supplement (SI)** Report **Updated** Initiated (ASR) Risk **Assessment**

Patrick Air Force Base removes munitions at landowner's request



JUL 2007

Time Critical Removal Action (TCRA) Recommended



AUG 2007

SI Complete

TCRA
Initiated at
School &
Mockingbird

Public and Homebuilders Meetings

Soil Testing, Surface Clearing & Temporary Fence Erected

SEPT 2007

Public Meeting

Mockingbird Investigation & Removals Begin

Restoration Advisory Board (RAB) Interest Meeting

Site Chronology (continued)

Nov 2007

Lennar Finds (Nov 6th & 28th)

Warwick & Tivoli Gardens Meetings

TCRA Initiated in Tivoli Gardens

School & Mockingbird Investigation & Removals

Dec 2007

TCRA Initiated in Warwick

School and Mockingbi rd Investigation

& Removals

Jan 2008

Tivoli
Gardens and
Warwick
Investigation
& Removals

School and Mockingbird Investigation & Removals

> Warwick Meeting

Feb 2008

Remedial Investigation Feasibility Study (RI/FS) Contract Awarded

> First RAB Meeting

Tivoli
Gardens and
Warwick
Investigation
& Removals

Mockingbird Investigation & Removals

March 2008

Tivoli
Gardens and
Warwick
Investigation
& Removals

Mockingbird Investigation & Removals

RI/FS TPP Meeting with Stakeholders

Site Chronology (Future Activities)

- Warwick and Mockingbird Investigation and Removals Complete (April 2008)
- RI/FS Draft Work Plan (April 2008)
- Tivoli Gardens Investigation and Removals Complete (May 2008)
- Restoration Advisory Board Meeting (May 2008)
- Geophysical Investigation (Mapping) Begins (June 2008)
- FI/FS Complete (FY2009)
- Proposed Plan& Decision Document Approval (FY2010)
- Initiate Remedial Design (FY2010)
- Initiate Remedial Action (FY2011-2014)
- Long-Term Monitoring (FY2015-2036)
- Project Closeout (FY2036)

Site Orientation

Department of Defense Uses

Ranges:

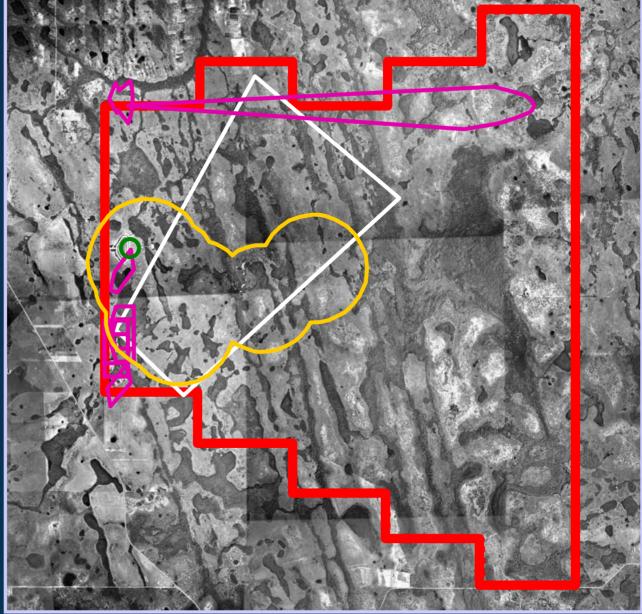
Chemical (incendiary, smoke) Demonstration

Rocket Range

Small Arms Range

Bomb Target



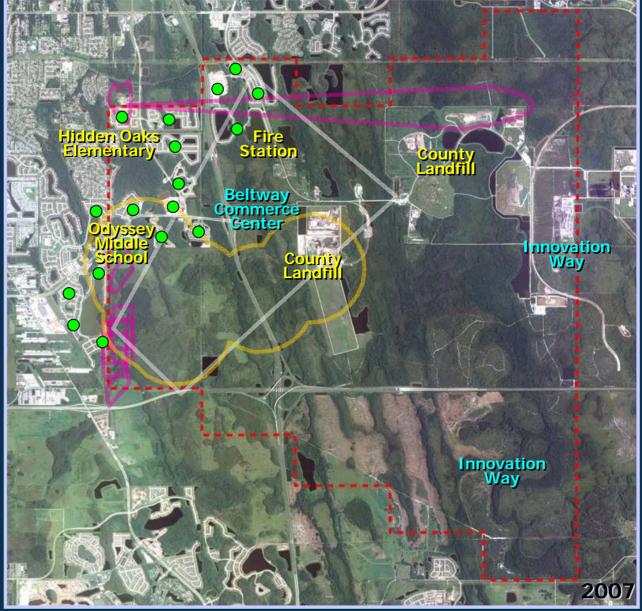


March 1952

Current Site Conditions Land Use

- 15 + Subdivisions and Related Homeowners Associations
- Public Uses
- Planned
 Large-Scale
 Development
 (Mixed-Use)







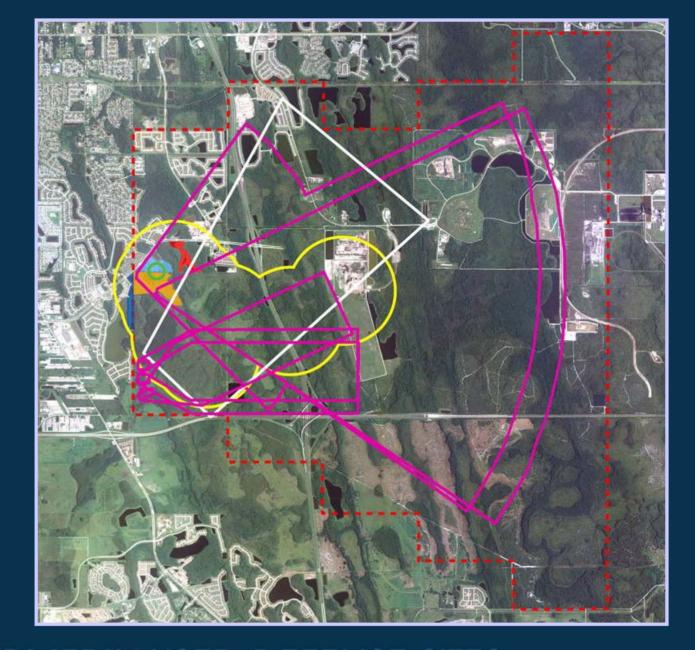


Mockingbird LLC Property
4.2 inch white phosphorus mortar and munitions demolition
January 2008

AREAS INVESTIGATED

Time Critical Removal Actions

- Odyssey
 Middle School
- Mockingbird LLC Property
- Tivoli Gardens
 Subdivision
- Warwick Subdivision



Time Critical Removal Actions

Ranges:

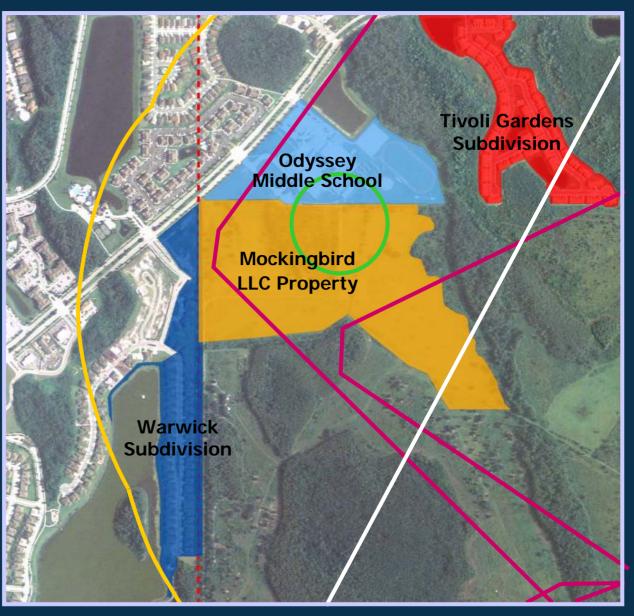
Chemical (incendiary, smoke) Demonstration

Rocket Range

Small Arms Range

Bomb Target





TCRA – Examples of Munitions Uncovered at Odyssey Middle School











Munitions Debris (fragments or inert bombs)



Live Munitions

Odyssey Middle School

Start: 08/03/07

- 3 removal periods to accommodate school operations
- No surface munitions or surface munitions debris
- 2,515 targets investigated
- 126 munitions with high explosives destroyed

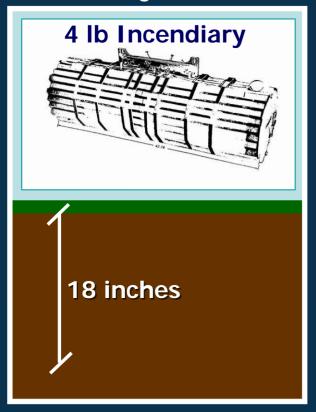
- 115 munitions debris items
- 14 tons of cultural debris removed
- Chemical analysis of soil samples completed – soils meet standards
- Track area restored



TCRA Summary – Investigation Concerns

Odyssey Middle School

Current Target Threshold:



At Current Target Threshold:



Proposed Target Threshold:



Path Forward Odyssey Middle School

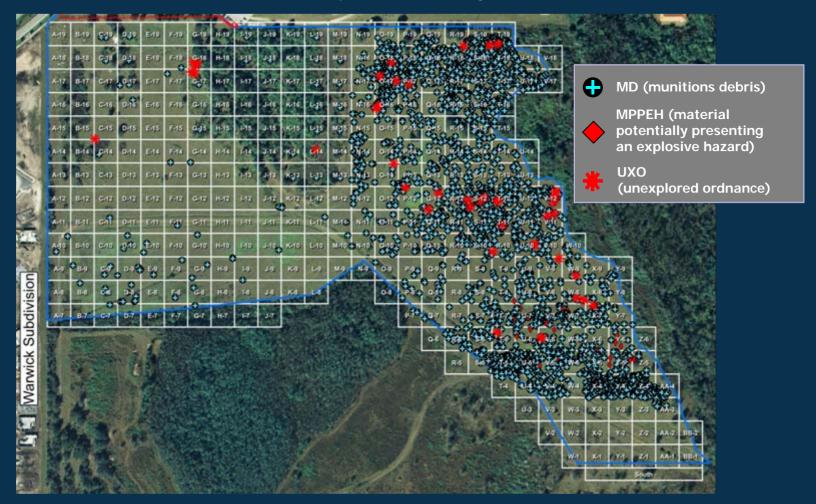
- School property is safe in the absence of digging or other ground surface penetrating activities
- Odyssey Middle School grass and dirt areas will be investigated for 37 mm projectiles to a depth of 12 inches, at a minimum (detection-level)
- Recommend school place digging restrictions on property requiring munitions construction support (examples: digging in grass, dirt or under structures; removing pavement)
- Media informed of further investigation through coordinated effort

Mockingbird LLC Property

Start: 09/02/07

- 61 acres to be investigated
- 7,652 targets to be investigated
- 85 munitions with high explosives destroyed

- 4 tons of cultural debris removed
- 1540 munitions debris items



Tivoli Gardens Subdivision

Start: 01/07/08

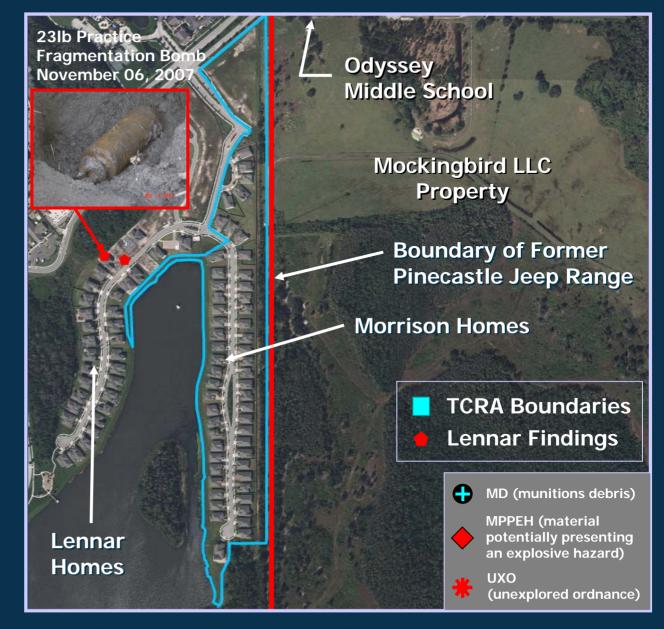
- Geophysical surveys for sub-surface ordnance (230 residences)
- 1,173 targets to be investigated
- 3 munitions with possible high explosives including an 23 lb frag bomb
- 10 munitions debris items found; and 36 mm, 75 mm, and 90 mm mortars
- .5 tons of cultural debris removed



Warwick Subdivision

Start: Feb 2008

- Geophysical surveys for sub-surface ordnance in Morrison Homes portion just started (55 residences)
- 0 munitions with high explosives
- 0 munitions debris items
- .6 tons of cultural debris removed



CERCLA Process

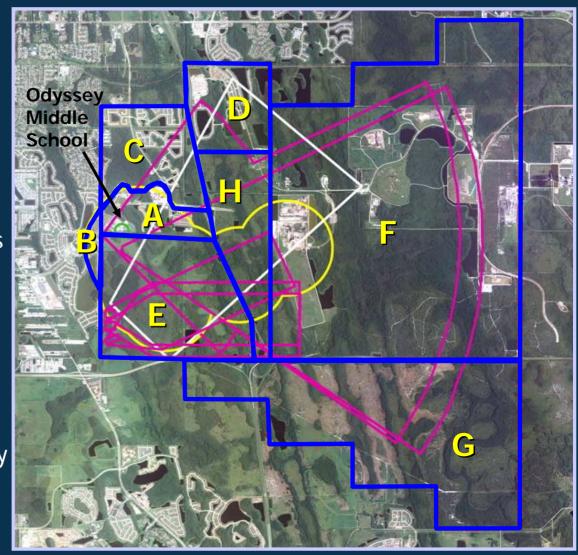
- FUDS Program has to follow the CERCLA Process
- TCRA for munitions removal actions only in response to hazards that pose immediate risk to people
- Site Inspection (SI)
 - > Sample, research, analyze, & determine need for RI/FS
- Remedial Investigation/Feasibility Study (RI/FS)
 - > Identify type of contamination
 - Identify extent of contamination
 - > Identify remediation alternatives
- Proposed Plan
 - Identify recommended remediation
- Decision Document
- Remediation

Areas of Interest A – D and part of F are first priority

RI/FS

Planning Basis

- RI/FS contract awarded February 28, 2008
- RI/FS Areas of Interest prioritized during government meeting in January 2008
- TPP meeting with stakeholders in March 2008
- RI/FS work plan review in April 2008
- RI/FS contractor starts investigation in housing areas in Spring 2008
- Decision Document will identify remedial actions for Areas of Interest



Objective

No fear of access; site sufficiently remediated to support safe use

Methodology Area A (City)

 Complete geophysical mapping and digging of suspected munitions in housing areas



- 125' transects in southern end of wetland between the school and Tivoli Gardens investigate path between school and Tivoli
- 125' transects in wetland in arch of Tivoli Garden boot
- 250' transects in undeveloped uplands and wetlands within bomb circle
- Transects on either side of Lee Vista Boulevard
- Soil Sampling where munitions found and where munitions debris is found in residential area



Objective

No fear of access; site sufficiently remediated to support safe use

Methodology Area B (City)

- Complete geophysical mapping and digging of suspected munitions in housing areas
- Transect conservation area near Warwick and Vista Lakes Community Center
- Soil Sampling where munitions found and where munitions debris is found in residential areas



Objective

No fear of access; site sufficiently remediated to support safe use

Methodology Area C (City)

- ➤ Complete geophysical mapping and digging 20% of suspected munitions in housing areas
- ➤ Complete geophysical mapping of school and digging 20% of suspected munitions
- >250' transects in undeveloped upland
- >Transect trails in wetlands
- Soil Sampling where munitions found where munitions debris is found in residential areas



Objective

No fear of access; site sufficiently remediated to support safe use

Methodology Area D (County)

- Complete geophysical mapping and digging 20% of suspected munitions in housing areas
- 250' transects in undeveloped uplands
- Leave wetlands undisturbed
- Soil Sampling where munitions are found and where munitions debris is found in housing areas



Objective

No fear of access; site sufficiently remediated to support safe use

Methodology Area E (City)

- 125' transects in uplands
- Characterize wetlands
- Soil Sampling where munitions are found



Objective

No fear of access; site sufficiently remediated to support safe use

Methodology Area F (County)

- 250' transects including in areas anticipated for borrow or future landfill expansions
- Characterize around wetlands
- Soil Sampling where munitions are found





Objective

No fear of access; site sufficiently remediated to support safe use

Methodology Area G (County; northwest corner – City)

- 250' transects in uplands
- Characterize around wetlands
- Soil Sampling where munitions are found



Objective

No fear of access; site sufficiently remediated to support safe use

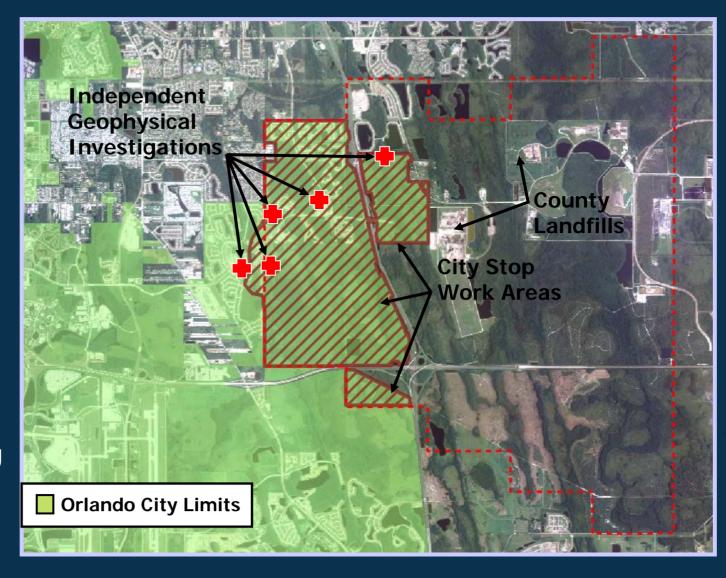
Methodology Area H (northern portion – City; southern portion – County)

- 250' transects in uplands
- Transects on either side of Young Pine Road
- Transects in lots in northeast corner
- Characterize around wetlands and conservation areas
- Soil Sampling where munitions are found



Actions by Others

- City of Orlando stop work order
- Independent investigations
- County landfill development
- County is proposing action





Odyssey
Middle School
DASA Site Visit
August 2007

PUBLIC INVOLVEMENT & COMMUNICATION PLAN

Public Involvement and Communication Plan Actively Engage the Community

Restoration Advisory Board

- Established in cooperation with state and local government
- Proactively recruited to ensure diverse representation
- First organizational workshop held February 2008
- Training to be provided for RAB members
- Anticipate involvement in RI/FS planning

Relationship Building

- Ongoing coordination with state and local government representatives throughout project life cycle
- Productive relationships established with homeowners associations
- Personal, one-on-one interactions with community members
- Regular on-site presence during operations

Coordination with Congressional Representatives

Continue to provide periodic updates





Public Involvement and Communication Plan

Inform Community through Multi-media Sources

Interactive Communication

- E-mail subscription service and toll-free number established for direct communication
- Public meetings and public comment periods at appropriate points in CERCLA process
- Informal workshops and community meetings

Information Access

- Information repositories at local libraries
- Project website with videos, photos, fact sheets, historical documents, presentations, contact information and more
- UXO safety materials to school and homeowners

Media relations

- Ongoing news releases, media availability sessions, interviews, news conference and editorial boards
- Appearances on local TV news shows
- Proactive sharing of project-related stories and information
- One-on-one meetings with local assignment editors



Restoration Advisory Board (RAB)

- Initial RAB meeting held February 26, 2008
- Approximately 60 people in attendance
- Community co-chair elected: Jim Shelton (homeowner)
- RAB membership includes 21 members of the community and representatives of the state, county and city
- RI/FS Public Meeting (March 27, 2008)
 - held as a joint TPP/RAB meeting
 - public is provided an opportunity to provide feedback on the RI/FS work plan
 - will have high media interest



